

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					Complete if Known		
					Application Number	Not Yet Assigned	
					Filing Date	Concurrently herewith	
					First Named Inventor:	Balu Balakrishnan et al.	
					Art Unit	Not Yet Assigned	
					Examiner Name	Not Yet Assigned	
Sheet	1	of			5	Attorney Docket Number	005510.P032C4
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)					
	1.	US-	3,491,252	01-20-1970	Petrohilos		
	2.	US-	3,555,399	01-12-1971	Buchanan et al.		
	3.	US-	3,840,797	10-08-1974	Aggen et al.		
	4.	US-	3,916,224	10-28-1975	Daniels et al.		
	5.	US-	4,058,758	11-15-1977	Peterson		
	6.	US-	4,072,965	02-07-1978	Kondo		
	7.	US-	4,143,282	03-06-1979	Berard, Jr. et al.		
	8.	US-	4,228,493	10-14-1980	de Sartre et al.		
	9.	US-	4,236,198	11-25-1980	Ohsawa et al.		
	10.	US-	4,378,585	03-29-1983	Bete		
	11.	US-	4,400,767	08-23-1983	Fenter		
	12.	US-	4,481,564	11-06-1984	Balaban		
	13.	US-	4,495,554	01-22-1985	Simi et al.		
	14.	US-	4,559,590	12-17-1985	Davidson		
	15.	US-	4,573,112	02-25-1986	Numata et al.		
	16.	US-	4,622,627	11-11-1986	Rodriguez et al.		
	17.	US-	4,695,936	09-22-1987	Whittle		
	18.	US-	4,706,176	11-10-1987	Kettschau		
	19.	US-	4,706,177	11-10-1987	Josephson		
	20.	US-	4,720,641	01-19-1988	Faini		
	21.	US-	4,725,769	02-16-1988	Cini et al.		
	22.	US-	4,734,839	03-29-1988	Barthold		
	23.	US-	4,737,898	04-12-1988	Banfalvi		
	24.	US-	4,739,462	04-19-1988	Farnsworth et al.		
	25.	US-	4,761,724	08-02-1988	Brown et al.		
	26.	US-	4,800,323	01-24-1989	Sikora		
	27.	US-	4,806,844	02-21-1989	Claydon et al.		
	28.	US-	4,809,148	02-28-1989	Barn		
	29.	US-	4,811,184	03-07-1989	Koninsky et al.		
	30.	US-	4,814,674	03-21-1989	Hrassky		

Examiner Signature		Date Considered	
-----------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (04-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					Complete if Known		
					Application Number	Not Yet Assigned	
					Filing Date	Concurrently herewith	
					First Named Inventor:	Balu Balakrishnan et al.	
					Art Unit	Not Yet Assigned	
					Examiner Name	Not Yet Assigned	
Sheet	2	of			5	Attorney Docket Number	005510.P032C4
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)					
	31.	US-	4,858,094	08-15-1989	Barlage		
	32.	US-	4,862,339	08-29-1989	Inou et al.		
	33.	US-	4,866,590	09-12-1989	Odaka et al.		
	34.	US-	4,870,555	09-26-1989	White		
	35.	US-	4,887,199	12-12-1989	Whittle		
	36.	US-	4,888,497	12-19-1989	Dallabora et al.		
	37.	US-	4,890,210	12-26-1989	Myers		
	38.	US-	4,928,220	05-22-1990	White		
	39.	US-	4,937,728	01-26-1990	Leonardi		
	40.	US-	4,942,508	07-17-1990	Nakamura		
	41.	US-	4,943,903	07-24-1990	Cardwell, Jr.		
	42.	US-	5,012,399	04-30-1991	Takemura et al.		
	43.	US-	5,012,401	04-30-1991	Barlage		
	44.	US-	5,014,178	05-07-1991	Balakrishnan		
	45.	US-	5,034,871	07-23-1991	Okamoto et al.		
	46.	US-	5,041,956	08-20-1991	Marinus		
	47.	US-	5,063,491	11-05-1991	Shigeo		
	48.	US-	5,072,353	12-10-1991	Feldtkeller		
	49.	US-	5,086,364	02-04-1992	Leipold et al.		
	50.	US-	5,140,513	08-18-1992	Yokoyama		
	51.	US-	5,146,394	09-08-1992	Ishii et al.		
	52.	US-	5,161,098	11-03-1992	Balakrishnan		
	53.	US-	5,177,408	01-05-1993	Marques		
	54.	US-	5,184,290	02-02-1993	Ozawa et al.		
	55.	US-	5,200,886	04-06-1993	Schwarz et al.		
	56.	US-	5,260,861	11-09-1993	Wert		
	57.	US-	5,289,101	02-22-1994	Furuta et al.		
	58.	US-	5,297,014	03-22-1994	Saito et al.		
	59.	US-	5,313,381	05-17-1994	Balakrishnan		
	60.	US-	5,333,104	07-26-1994	Tamura et al.		

Examiner Signature		Date Considered	
-----------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (04-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					Complete if Known	
					Application Number	Not Yet Assigned
					Filing Date	Concurrently herewith
					First Named Inventor:	Balu Balakrishnan et al.
					Art Unit	Not Yet Assigned
					Examiner Name	Not Yet Assigned
Sheet	3	of		5	Attorney Docket Number	005510.P032C4

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
	61.	US-	5,394,017	02-28-1995	Catano et al.	
	62.	US-	5,414,340	05-09-1995	Gannon	
	63.	US-	5,452,195	09-19-1995	Lehr et al.	
	64.	US-	5,461,303	10-24-1995	Leman et al.	
	65.	US-	5,475,579	12-12-1995	John et al.	
	66.	US-	5,481,178	01-02-1996	Wilcox et al.	
	67.	US-	5,508,602	04-16-1996	Borgato et al.	
	68.	US-	5,528,131	06-18-1996	Marty et al.	
	69.	US-	5,552,746	09-03-1996	Danstrom	
	70.	US-	5,563,534	10-08-1996	Rossi et al.	
	71.	US-	5,568,084	10-22-1996	McClure et al.	
	72.	US-	5,570,057	10-29-1996	Palara	
	73.	US-	5,572,156	11-05-1996	Diazzi et al.	
	74.	US-	5,610,803	03-11-1997	Malik	
	75.	US-	5,617,016	04-01-1997	Borghi et al.	
	76.	US-	5,619,403	04-08-1997	Ishikawa et al.	
	77.	US-	5,621,629	04-15-1997	Hemminger et al.	
	78.	US-	5,625,279	04-29-1997	Rice et al.	
	79.	US-	5,631,810	05-20-1997	Takano	
	80.	US-	5,636,109	06-03-1997	Carroll	
	81.	US-	5,640,312	06-17-1997	Carroll	
	82.	US-	5,640,317	06-17-1997	Lei	
	83.	US-	5,675,485	10-07-1997	Seong	
	84.	US-	5,729,448	03-17-1998	Haynie et al.	
	85.	US-	5,786,990	07-28-1998	Marrero	
	86.	US-	6,104,622	08-15-2000	Shin	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (04-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known Application Number Not Yet Assigned Filing Date Concurrently herewith First Named Inventor: Balu Balakrishnan et al. Art Unit Not Yet Assigned Examiner Name Not Yet Assigned	
Sheet	4	of	5	Attorney Docket Number	005510.P032C4

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	87.	WO	83/01157	03-31-1983	GOULD INC.		
	88.	EP	0 651 440 A1	05-03-1995	SGS-THOMSON MICROELECTRONICS s.r.l.		
	89.	EP	0 694 966 A1	01-31-1996	SGS-THOMSON MICROELECTRONICS s.r.l.		
	90.	EP	0 736 957 A1	10-09-1996	SGS-THOMSON MICROELECTRONICS s.r.l.		
	91.	EP	0 740 491 A1	10-30-1996	CO.RI.M.ME and SGS-THOMSON MICROELECTRONICS s.r.l.		
	92.	EP	0 748 034 B1	02-02-2000	STMicroelectronics s.r.l.		
	93.	EP	0 748 035 A1	12-11-1996	SGS-THOMSON MICROELECTRONICS S.A.		
	94.	EP	0 751 621 B1	04-15-1998	SGS-THOMSON MICROELECTRONICS s.r.l.		

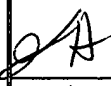

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (04-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently herewith
				First Named Inventor:	Balu Balakrishnan et al.
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	5	of	5	Attorney Docket Number	005510.P032C4
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
	95.	BOWEN, A.J. et al., "Power Supply with Optical Isolator," IBM Technical Disclosure Bulletin, Vol. 14, No. 11, April 1972, p. 3220			
	96.	HOFFMAN, Jr., H.S., "Self-Generated Bias Supply," IBM Technical Disclosure Bulletin, Vol. 20, No. 5, October 1977, pp. 1814-1815			
	97.	HALPERIN, A., "Primary Regulated Dual Power Supply," IBM Technical Disclosure Bulletin, Vol. 21, No. 10, March 1979, pp. 4299-4300			
	98.	HOFFMAN, Jr., H.S. et al., "Proportional Drive Supply with Diversion Control," IBM Technical Disclosure Bulletin, Vol. 21, No. 12, May 1979, pp. 4904-4905			
	99.	AZZIS, D. et al., "Flyback on Card Power Supply," IBM Technical Disclosure Bulletin, Vol. 23, No. 4, September 1980, pp. 1477-1478			
	100.	BRUCKNER, R. et al., "Optimizing Converter Design and Performance Utilizing Micro Controller System Feedback and Control," Proceedings of Powercon 8, E-2, 1981, pp. 1-10 <i>(no month)</i>			
	101.	PELLY, B. et al., "Power MOSFETs Take the Load Off Switching Supply Design," Electronic Design, February 1983, pp. 135-139			
	102.	RIEZENMAN, M., "5-W DC-DC Converters Aim at Telecomm Applications," Electronic Design, July 1983, p. 227			
	103.	"Combined Switch-Mode Power Amplifier and Supply," IBM Technical Disclosure Bulletin, Vol. 28, No. 3, August 1985, pp. 1193-1195			
	104.	"Off-Line Power Supply Control Technique Using A Single Transformer To Feed Back Three Control Signals," IBM Technical Disclosure Bulletin, Vol. 32, No. 8A, January 1990, pp. 272-274			
	105.	"Tiny Switch Family," Power Integrations, Inc., TNY253/254/255 product information, pp. 1-16, June 1998			

Examiner Signature		Date Considered	
--------------------	---	-----------------	---

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (04-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03